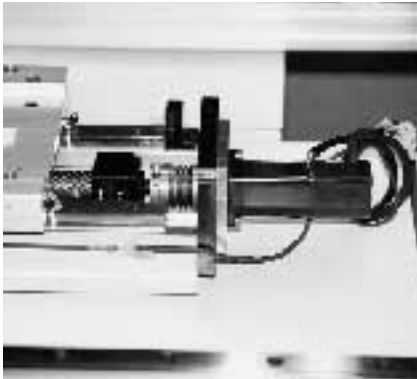


Metal bellows couplings

Sample applications



Series DKN
Application – Linear actuator

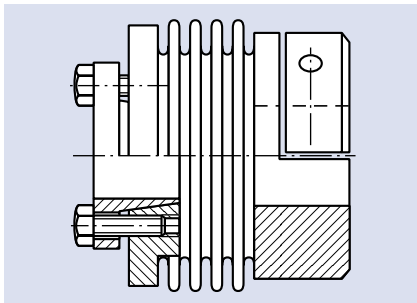


Series AK
Application – Gantry robot

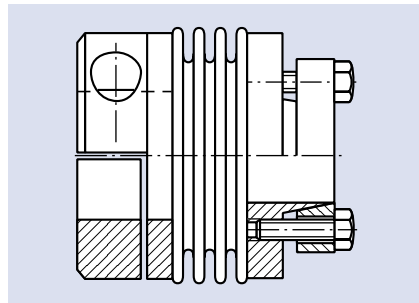


Series AKN
Application – servo-drive / milling machine

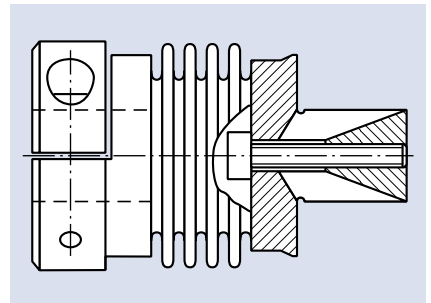
Variable Series



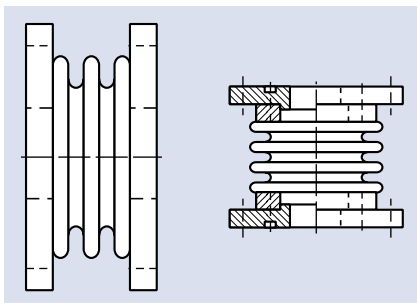
Series AK/AKD
Model with collet clamp and inner conical hub



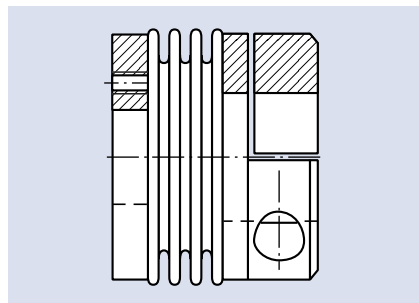
Series AKD/AK/SB
Model with collet clamp and outer conical hub



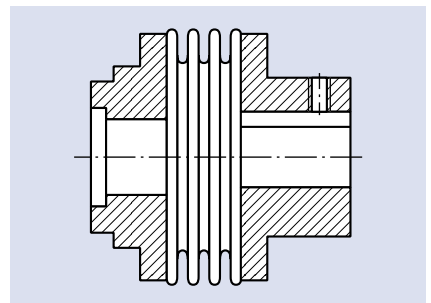
Series AKN/S
Model with collet and expanding clamps



Series CK
With special flange



Series AKD/CK
Model with collet clamp and flange



Series AKN-XX
Model with special hub on both sides

Metal bellows couplings

Assembly instructions

Assembly

Clean shaft ends and bores in hubs, degrease and check the tolerances.

Insert both shaft trunks into the hubs of the metal bellows coupling, and firmly tighten the screws, after examining the axial installation dimensions.

The tightening torque of the screws and the maximum approved misalignment should not be exceeded (refer to list of Technical Data).

Alignment

Figure 10 illustrates the individual types of misalignment.

The fitted metal bellows coupling must now be aligned. Please check the values indicated in the lists of Technical Data.

If several types of misalignment appear simultaneously, then each of the individual values should not be exceeded. Moreover, they should be aligned.

The total of the real misalignments in percentage of the maximum value should not exceed 100%. Figure 9 shows how to regulate.

The more precise the alignment, the more reserves are available to handle additional misalignments for operation. This will have an advantageous

effect on the service life, balance quality, and the accuracy of transmission.

If several types of misalignment occur at once, then the values must be lower than each of the maximum values.

Dismantling

After loosening the backlash-free shaft-hub connections, the drive can be pulled apart and the metal bellows coupling can be removed.

Conical bushings for Series AK are forced off with a hexagonal socket screw.

Please ask for our detailed assembly instructions.

Figure 9: Compensating for misalignment

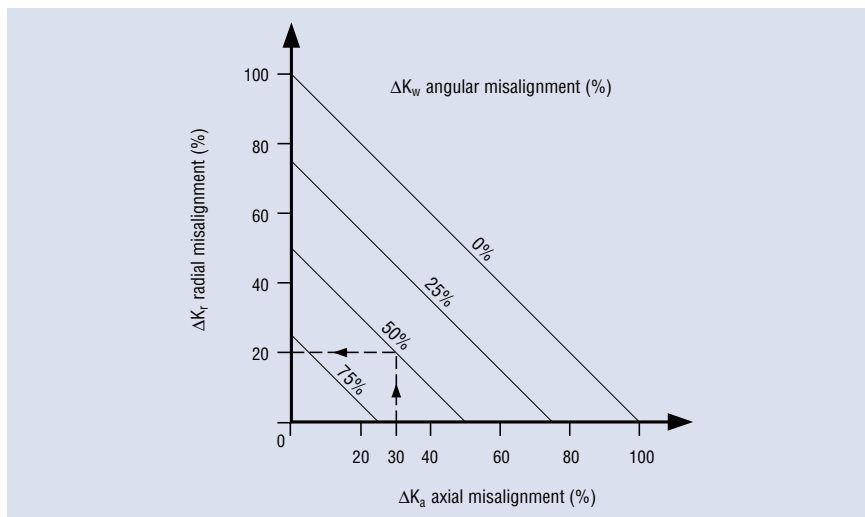
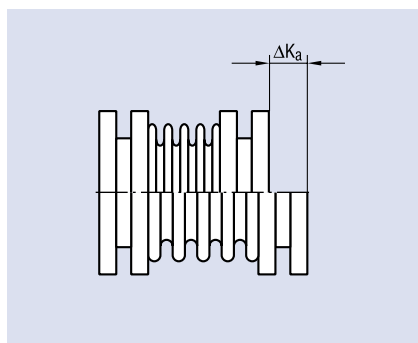
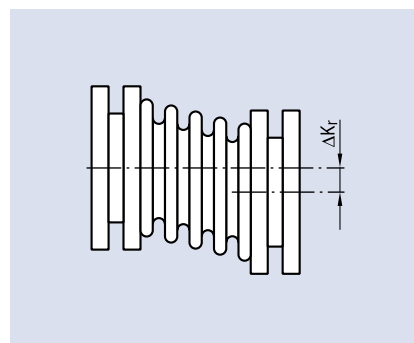


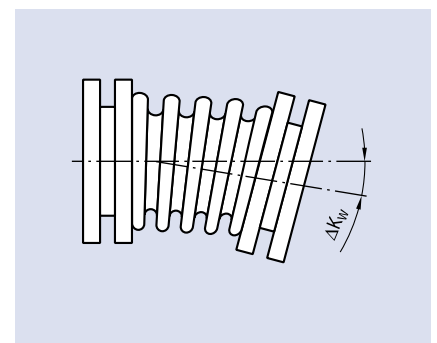
Figure 10: Types of misalignment



axial



radial



angular