


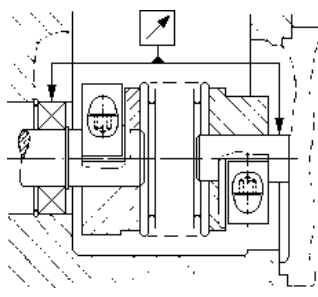
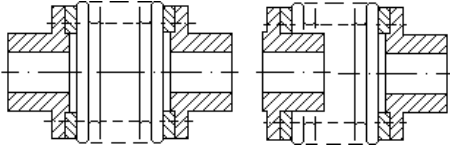
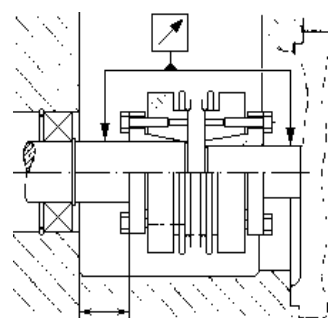


METAL BELLOWS COUPLING MOUNTING INSTRUCTIONS

SERIES: AKD - AKN - AK - CK - AK/SB

<p>AKD/AKN with clamp hubs</p>  <p>AKD AKN</p>	<p>CK for flange mounting</p> 	<p>AK with tapered hubs</p> 
 <p>take eccentricity into consideration</p>	 <p>hubs not included with delivery</p>	 <p>-free mounting space for tensioning or force-off screws - take eccentricity into consideration</p>

MAXIMUM ACCEPTABLE MISALIGNMENT:

	<u>Series AKD/AK/CK</u>			<u>Series AKN</u>		
	radial	axial	angular	radial	axial	angular
During mounting	1.0 mm	2.0 mm	5.0°	0.5 mm	1.5 mm	4°
In operation	0.2 mm	0.5 mm	1.5°	0.1 mm	0.4 mm	1°

MOUNTING:

Power transmission between the coupling's hub and the shaft is effected by the pressure and friction between the contact surfaces. Particular attention must be paid to the controlled tightening of the tensioning screws and the condition of the contact surfaces. A value of Rz=<16 microns should not be exceeded for the mean peak-to-valley height of the shafts being used.

1. Check the shaft fits for dimensional compliance, and lubricate slightly with oil. For this purpose neither oils with molybdenum disulphide additive nor other synthetic additives may be used.
2. Tighten the tensioning screws slightly and align the coupling.
3. Tighten the AK series tensioning screws evenly in several stages to the specified torque. Check the tightening of the screws in the sequence of their arrangement (avoid excessive distortion). Repeated re-tightening of a clamping screw does not lead to increased clamping power but to distortion of the clamping element. Under certain circumstances this can lead to the destruction of the clamping connection.
4. Keyways in shafts when using our AK series do not affect the function of the interference fit. If the tapered hub is used repeatedly, though, functional reliability can be affected.
5. The tensioning screws for couplings in the AKD/AKN series are tightened subsequent to alignment via a torque wrench to the torque specified in the technical ratings table.

DEMOUNTING:

The tapered hubs of the AK series are freed after loosening the tensioning screws using 3 set screws per hub as a means of forcing off. The clamped fastening of the AKD/AKN series is removable by loosening the tensioning screws.

TOLERANCE OF HUB BORINGS:

The metal bellows couplings in the series AKD/AKN/CK/AK/CK are supplied with tolerance H7. We recommend a transitional tolerance for the shaft/hub fastening, e.g., H7/j6. The clearance may amount to only 0.03 for selection of the tolerance. Nonstandard tolerances are specifically designated. Prior to mounting, ensure that the shaft misalignment lies within the values specified above. Where necessary, align the shafts prior to mounting. An excessive degree of misalignment will affect the service life of the coupling. Protect the metal bellows of the coupling against damage.

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