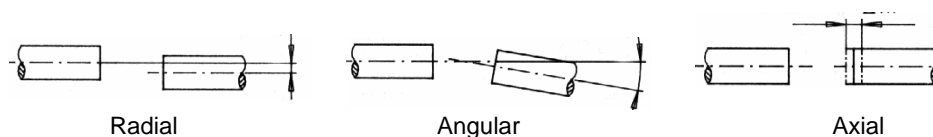


Assembly instructions for metal bellows couplings

Tolerances of machining and assembly as well as temperature influences cause misalignments of shafts, which lead to excessive bearing loads. These in turn lead to increased wear, which shortens the life cycle of the machine and may even cause a breakdown. Using metal bellows couplings reduces this risk to a minimum. We differentiate between **three types of misalignment**



Angular and axial misalignment are easy to measure.

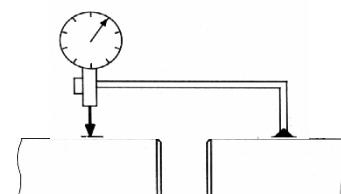
How to measure radial misalignment:

Fix dial gauge at shaft 1. Align the caliper of the gauge at shaft 2.

Turn the shaft and read the indication of the gauge.

The lateral misalignment is this indication divided by two.

This value has to be lower than the allowed value, indicated in the data sheet of the coupling.



Shaft hub connection

The hubs of the couplings are tolerated H7. For the shafts we recommend g6.

Clearance between shaft and hub should be more than 0,01 mm and less than 0,04 mm

Oil shaft, hub and taper slightly to avoid frictional corrosion.

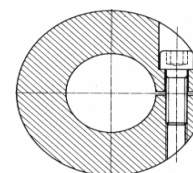
KB 4 Collet clamp

Assembly: Tighten clamp screw with indicated torque

Dismantling: Loosen clamp screw

Tightening torque of clamp screw for collet clamp:

KB 4	18	30	60	80	150	200	300	500			
DIN 912	M 5	M 6	M 8	M 10	M 10	M 12	M 12	M 16			
Nm	8	15	40	72	84	125	145	145			



KB 5 Inner Conical Hubs

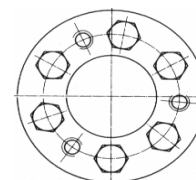
Assembly: Tighten screws 3 times crosswise

avoid axial tension

Dismantling: Loosen clamp screws. Pull off equally the cone with the jack bolts

Tightening torque of clamp screw:

KB 5	18	30	60	80	150	200	300	500	800	1400	3000	5000
DIN 933	4 x M 5	6 x M 5	6 x M 6	6 x M 6	6 x M 6	6 x M 6	6 x M 8	6 x M 8	6 x M 16	6 x M 16	6 x M 16	6 x M 16
Nm	4,5	4,5	8,5	10	15	15	18	25	45	80	115	210



KB 6 Outer Conical Hubs

Assembly: Coupling is pre-assembled; do not dismantle conical hub.

Dismantling: Loosen screws

Outer Conical hub is not selflocking

Tightening torque of clamp screw:

KB 6	18	30	60	80	150	200	300	500	800	1400	3000	5000
DIN 933	4 x M 5	6 x M 5	6 x M 6	6 x M 6	6 x M 6	6 x M 6	6 x M 8	6 x M 8	6 x M 12	6 x M 12	6 x M 12	6 x M 16
Nm	6	6	9	15	15	15	25	36	85	115	125	210

