## **Couplings type CPS**



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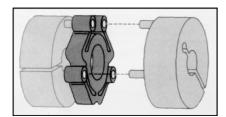


- Large compensation of misalignment
- Slight radial restoring forces
- No change of angular velocity in case of shaft displacement
- Damps vibrations
- Easy installation with clamping element
- Electrical insulating

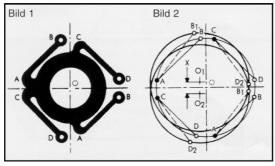
## **Description**

The CONTROLFLEX-coupling serves to couple two shafts whose axes don't exactly ly in a straight line. The middle plate of this coupling allows a relative loose parallel shaft displacement due to the special elasticity of the coupling elements without changing the angular velocity. In addition, form and material allow the compensation of angular mistakes (= dip of the axes to one another) up to 1,5°.

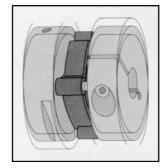
In practice and with good rotating stiffness, the elasticity of the used material and the length of the coupling elements give rise to negligible restoring forces. For higher torques and improved rotating stiffness please choose multi-plate versions, for example **CPS15/2**.



The CONTROLFLEX-coupling is made of two hard-coated aluminium clamping hubs into which are pressed two drive pins. These drive pins reach into the CONTROLFLEX – spring element without clearance, make possible an easy mounting and ensure accurately and reliably that the shafts are coupled. By using different sizes and varying the number of middle plates, the coupling can be adapted exactly to your demands.



The geometry is made clear in picture 1. The shafts which have to be coupled align. In picture 2, one shaft is staggered x/2 towards the other. Around the same measure have been displaced B1 from B and D2 from D, while the driving arms AB and CD have remained parallel.



It follows that no angular displacement has happened (straight line). This parallel deflection is repeated twice during each rotation.

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## **Mechanical Data**

