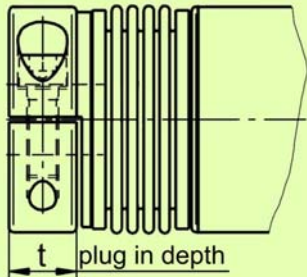


Couplings with intermediate pipe

Installation and mounting instructions

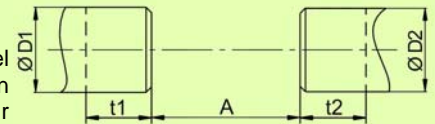
General

The category "couplings with intermediate pipe" comprises several coupling series which can span large axial distances ("A") of up to 6 m of length. They can be used as spacer shaft (synchronizing shaft) without additional intermediate bearing. A secure, frictional connection with easy operation is given because of the hub design in half-shell version (series WDE and WDS) resp. with sliding hub (series EKZ). This enables an optimal and easy adjustment of the journals of the shaft ($\varnothing D1/\varnothing D2$) and facilitates the dismantling in case of service, because the drive and out put units (e.g. servo motor) can stay screwed in adjusted position.



For series WDE and WDS the allowed plug-in depth "t" of the journals of the shaft into the hub must be controlled before mounting.

Note: The allowed max. values of lateral misalignment (parallel misalignment) must be given special care! Otherwise, a reduction of the life period of the coupling and the bearing can occur. Appropriate tools, such as e.g. a laser alignment system might be used.

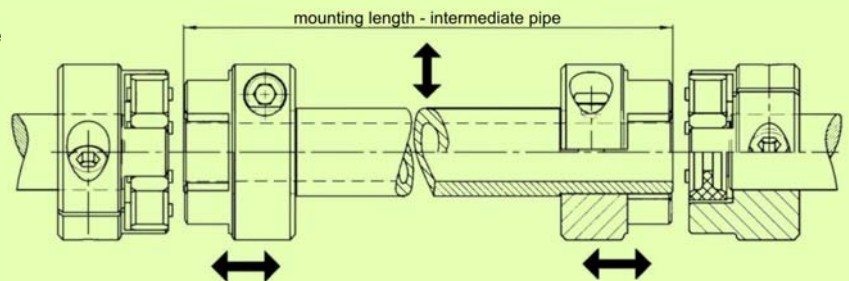


1.) Elastomer coupling - series EKZ

The intermediate pipe with one sliding hub per side can be fitted as an intermediate unit between the journals of the shaft ($\varnothing D1/\varnothing D2$). Then, an axial movement with low manual force plugs it into the coupling half on the side of the shaft.

Note: Widening of the coupling hubs on the side of the pipe (EASY clamping system) facilitates the plug-in.

EKZ Size	tightening torque clamping screws	t [mm]
20	M 5 - 8 Nm	16 - 20
45	M 6 - 14 Nm	18 - 25
90	M 8 - 35 Nm	20 - 26
200	M 10 - 65 Nm	23 - 30
400	M 12 - 115 Nm	28 - 35
700	M 14 - 185 Nm	35 - 42

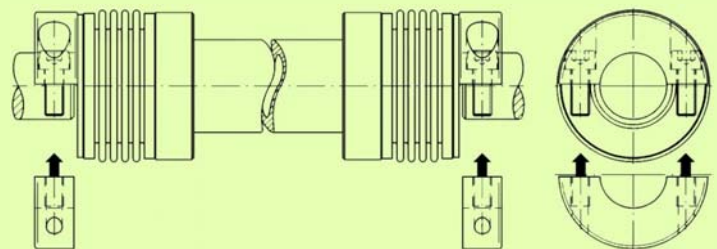


Allowed lateral misalignment (parallel misalignment): 5 mm per m of pipe length
max. allowed operation temperature: 120°C

2.) Metal bellows coupling - series WDE

One part of the half-shells is connected to the coupling. The loose parts of the half-shells must be fixed evenly in turns by 2 clamping screws each (pay attention to the gap!).

WDE Size	tightening torque clamping screws	t ±1 [mm]
40	2x M 6 - 14 Nm	16
80	2x M 8 - 35 Nm	18
160	2x M 10 - 65 Nm	21
250	2x M 12 - 115 Nm	24
500	2x M 14 - 200 Nm	30

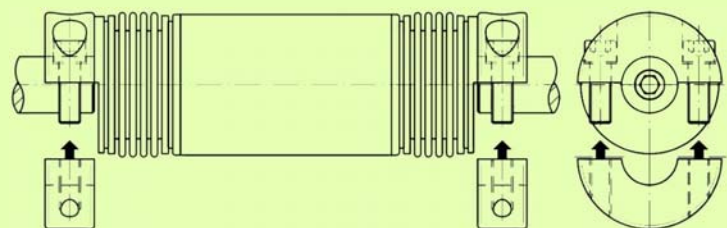


Allowed lateral misalignment (parallel misalignment): 15 mm per m of pipe length

2.) Metal bellows coupling - series WDS

One part of the half-shells is connected to the coupling. The loose parts of the half-shells must be fixed evenly in turns by 2 (4) clamping screws each (pay attention to the gap!).

WDS Size	tightening torque clamping screws	t ±1 [mm]
15	2x M5 - 8 Nm	18
50	2x M 8 - 35 Nm	26
100	2x M 10 - 65 Nm	26
200	2x M 12 - 115 Nm	28
400	2x M 14 - 200 Nm	30
800	4x M 12 - 115 Nm	45
1600	4x M 16 - 290 Nm	64



Allowed lateral misalignment (parallel misalignment): 15 mm per m of pipe length

Caution: As the metal bellows consist of thin stainless steel, they must be handled with special care. Deformations of the bellow can impair the function. Max. allowed operation temperature WDE series: 120°C / WDS series: 300°C.