F.F.A. Schulze GmbH

Mechanische Fernbedienteile / Remote Control for valves

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Directives for installation

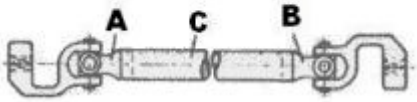
1. In general

The minimum in loss of power of a remote control gear with transmission tubing for manual operating is only guaranteed by uniform transmission of motion. Therefore the directives according to the sections 2 to 5 have to be considered thoroughly in planing and installation.

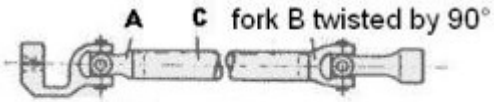
2. Fork position

2.1. The axles of the bore-holes of the weld-in forks (A) and (B) have to be ush with each other, when welding into the transmission tube (C), see picture 1.

picture 1
right position of fork



2.2. Twisted weld-in forks connected by transmission tube - e.g. in picture 2 - are not proper. Just a relative small twisting of the forks leads to a high reduction of efficiency.



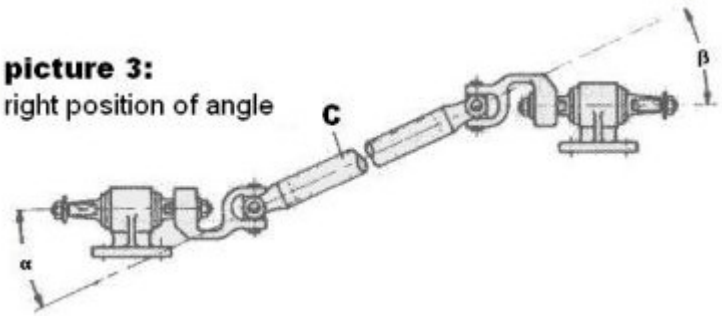
picture 2:
wrong position of fork

3. Angle of de ection

3.1. The angular position of the joints should not be wider than 25°. In exceptions the angle could be 30°, if the remote control consists of a small number of diversions.

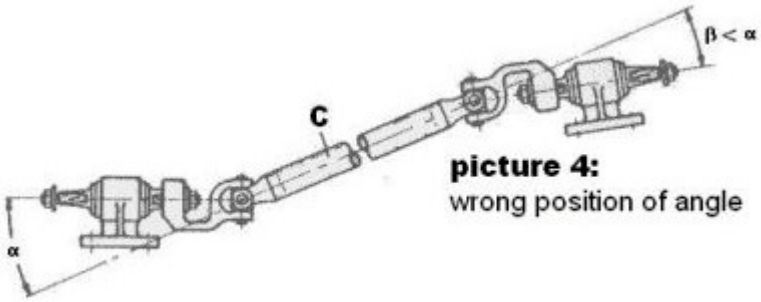
3.2. The angles a and b at the ends of the transmission tube (C) have to be equal-sized, see picture 3.

picture 3:
right position of angle



Amtsgericht Meldorf HRB Nr. 1764
Geschäftsführer: Jens Barmwater

3.3. Unequal angles - e.g. in picture 4 - are not appropriate and lead to an enormous reduction of efficiency, see also section 2.2.



picture 4:
wrong position of angle

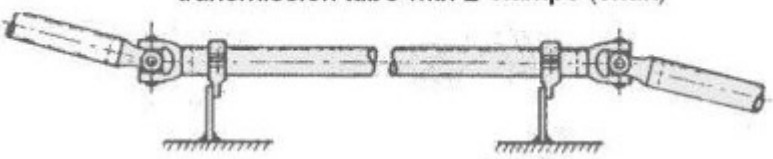
4. Angular speed

4.1. Only if there is an odd number of shafts, equal angular speeds are possible. Hereby a couple of shafts of a bevel gear unit (e.g. DIN 87350) the shaft in the bearing bracket holds for one shaft and the shaft of the swivel part holds for a joint.

5. Supports

5.1. If a transmission tube is beared by two spaced pipe support (DIN 87 371), this transmission tube hols for a shaft, see picture 5.

picture 5:
transmission tube with 2 clamps (shaft)



5.2. If a long transmission tube between two joints, which are beared at fixed ends of shafts (e.g. DIN 87376), has to be supported, only one pipe support (DIN 87 371) shall be attached in the middle of the pipe. In other cases the needed swinging of the pipe is hindered, see picture 6.

picture 6:
with one holder