

Assembly Instructions

Connecting the hydraulic tubing

ERGOSWISS
Dynamic Systems

! ATTENTION

Before turning the crank or the motor unit, you have to be sure that all the pressure elements are connected with a cylinder or the hydraulic system can be damaged

- Each Cylinder is partly filled with oil. This oil is used to press out all the air in the tubing.
- If the tubing is already mounted at the Cylinder (Pre assembled tubing 199.00003; end of tubing is welded), just do **A, E, G**.

A. Cut the tubing to the length you prefer. Use a knife with a sharp blade to cut the tubing straight.

B. Loosen the screw and pick out the steel ball with a magnet.

C. Slide screw and clamping ring on the tubing. Insert the tubing completely into the connection head. Press and fix clamping ring and fix the screw in the connecting head hand tight.

D. Turn the screw exactly 2 turns. This will create the necessary torque of 10Nm.

! ATTENTION

If the screw is tightened too firmly the thread may be destroyed.

E. Hold the pump with the connection up. Loosen the screw at the pump and pick out the steel ball with a magnet.

F. Hold the cylinder with the tube connection up. Compress the piston rods slowly to the end position and collect excess oil.

! ATTENTION

The piston rod has to be compressed completely. At the end of the tubing oil will run out.

G. Slide screw and clamping ring on the tubing. Insert the tubing completely into the connection head. Press and fix clamping ring and fix the screw in the connecting head hand tight.

Turn the screw exactly 2 turns. This will create the necessary torque of 10Nm.

! ATTENTION

If the screw is tightened too firmly the thread may be destroyed.

The pump is completely filled up with oil. After the connection of all the Cylinders with the Pump the System is ready to use.

The maximum length of the tubing is 5 meters, its smallest radius 25 mm.

The tubing has to be laid to avoid the following circumstances:

- mechanical forces
- contact with aggressive fluids
- direct sunlight (UV ray) and heat

It is necessary to use tubing holders which cannot damage the tubing. If the tubing is laid across holes or sharp edges it has to be protected from abrasion. Do not stand on the tubing. The installation is not complete until the tubing has been laid with the utmost caution.

