

Hydraulic NovoDock L500

Adjusting instruction

Article no. hydraulic unit: DS0110300
Motor power: 1,5kW
Design: Telescopic lip with 2 solenoid valves

Basic requirements: The electric and hydraulic components of the dock leveller are completely installed. A pressure gauge is connected to the measuring port „M“.

1 Adjusting the lift pressure

- Press "Lift" button. If there is not enough pressure to lift the platform, unlock the spindle of valve DB1 and turn clockwise until the platform rises.
- Press "Extend lip" button until the lip is completely out.
- Unlock the spindle of valve DV2 and turn clockwise to its stop (close).
- Let the platform sink to approximately 100mm above lowest position.
- Press "Lift" button and keep it pressed.
- Unlock the spindle of valve DB1 and turn anticlockwise until the platform stops rising and "floats". Gauge the pressure at "M" (floating pressure).
- Raise the pressure by turning the spindle clockwise so that in the uppermost position of the platform the pressure is floating pressure plus 20 bar.
- Lock the spindle by tightening the lock nut.
- Check the tightness of the valves. Raise the leveller platform to its uppermost position and switch off the mains isolator. If the platform does not sink, all valves are tight.

2 Adjusting the telescopic lip in speed

- Press "Lift" button.
- Open valve DV2 by turning the spindle anticlockwise and adjust so that the lip retracts approximately 400mm and parallel the platform raises 100mm.
- Lock the spindle by tightening the lock nut.

3 Checking the extend lip pressure

- The factory setting of the valve DB2 is 50bar and the valve is locked. It is not allowed to increase the pressure!
- Check the extend lip pressure by pressing the "Extend lip" button. The telescopic lip must speedy extend.

4 Adjusting the sink speed

- Unlock and turn the spindle of valve DV1 clockwise to its stop (close).
- Press "Lift" button and raise the platform completely.
- Turn the spindle anticlockwise so that the sink speed between uppermost and horizontal position of the platform is 150mm/s, measured at the front edge of the platform.
- Lock the spindle by tightening the lock nut.

5 Checking the function of safety valves

- Press "Lift" button and raise the platform completely.
- Extend the lip completely and let the platform sink until the lip rests on the testing device (or an appropriate support).
- Put testing weight (min. 10% of the load capacity, e.g. min. 600kg for capacity 60kN) on centre of the platform.
- Release the testing device respect. Remove the support in one go.
- After a sink distance of max. 100mm (measured at the edge of the platform) both lift cylinders must lock. If one cylinder does not lock, repeat the test. If the cylinder does not lock once again, it has to be replaced.

Hydraulic schedule:

