

Hydraulic NovoDock L300

Adjusting instruction

Article no. hydraulic unit: DS0110100
Motor power: 0,75kW
Design: Swing lip with 1 solenoid valve

Basic requirement: 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 DB and turn clockwise until the platform rises.
- Swing out the lip automatically. If the swing does not swing out, unlock spindle of valve V2 and turn anticlockwise until the lip swing out.
- Keep the "Lift" button pressed. Adjust the valve DB to 140 bar, measured at measuring point „M“, by turning the spindle (clockwise rotation = pressure higher, anticlockwise rotation = pressure lower).
- 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 automatic swing out movement

- Press "Lift" button and raise the platform completely.
- Check if the lip swings out automatically. If the lip does not swing out unlock spindle of valve V2 and turn anticlockwise until the lip swing out (switch pressure 120 bar).
- Let the platform sink to its lowest position. The lip must remain swung out while the platform sinks. If the lip swings back turn the spindle more anticlockwise.
- Raise the leveller platform by pushing the "Lift" button. The lip must not swing out while the platform rises. If the lip swings out turn the spindle of valve V2 clockwise until the lip does not swing out while the platform rises.
- Lock the spindle by tightening the lock nut.

Remark: The swing out/ in speed of the lip is not adjustable.

3 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.

4 Checking the function of the safety valves

- Press "Lift" button and raise the platform completely.
- Swing out 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:

