Installation manual

PS level regulator

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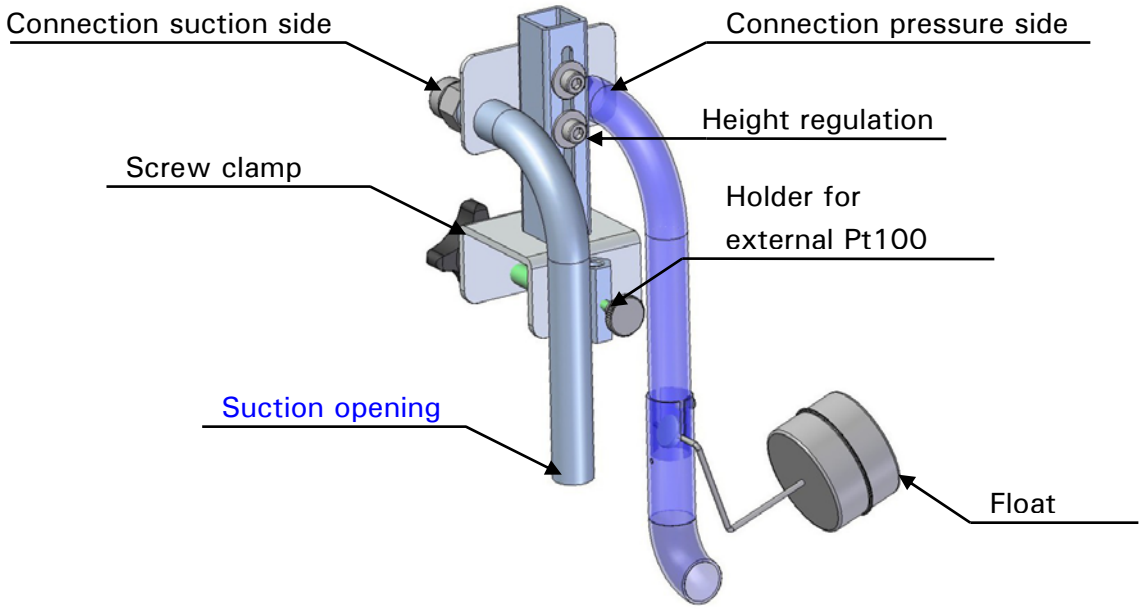
Valid for:

#9580



HUBER PS level regulator

The PS level regulator is an accessory for HUBER temperature control devices with a pressure- and suction pump for the use of external open applications. The PS level regulator controls the fluid level within these applications and prevents overflow as well as safety shut downs due to too low a level.

The PS level regulator is manufactured for commercial use only.

Installation PS level regulator

Unpack the PS level regulator and inspect them for possible transport damage. Dispose of the transport packaging according to environmental guidelines. Damage should be reported to the corresponding carrier. Set up the experimental plant according to your requirements. The working bench has to be flat, leak-proof, non-skid and flame-proof.

Align your bath horizontally. Before filling of the external bath, mount the PS level regulator on its wall. The float has to be located inside the bath in such a way that its axis is free to move. Fix the PS level regulator on the bath wall with the screw clamp. Connect the pressure outlet of your temperature control device with the connection pressure side of the PS level regulator. Proceed to connect the suction inlet of your temperature control device with the connection suction side of the PS level regulator.

⚠ CAUTION

The temperature control hoses for the connection between temperature control device and the level regulator should be chosen so that they are compatible with the thermal fluid being used. This will prevent the hoses against damage and leaking thermal fluid. Make sure, that the temperature control hoses are mounted in such a way that they cannot slip. Use hose clamps for further securement.

Close the drain valve from your external bath and start filling thermal fluid inside the tank until the required volume has been reached.

⚠ WARNING

Protect yourself against direct contact with thermal fluid. Pay attention to the security advices in the data sheet. Always use protective clothing and protective goggles when working with thermal fluids.

It is to expect a bigger volume displacement of the thermal fluid through bath inserts. This can be simulated by placing different bath inserts into the bath vessel.

Adjust the level regulator onto the bath by loosening the allen screws from the height regulation. Position the allen screws in such a way, that at least 1.5 cm of the suction opening will be emerged into the fluid and the float is floating on the fluid´s surface. Lock the height regulation by fastening the allen screws.
If your temperature control device does contain an internal bath, fill it with thermal fluid taking into account the safety instructions. Purge your complete system, including PS Level Regulator, of air. To do this, switch on the pump via the function on the main display. Leave the fluid circulating until all trapped air has escaped through the system. The volume drop that may have been caused through the venting in the bath vessel (internal/external) can be equalized by refilling thermal fluid manually. Before starting the application, make sure that the hose connections are tight and leak-proof.

Maintenance PS level regulator

⚠ WARNING

Disconnect all current-carrying units from the mains before carrying out any electrical work on the device. Remove therefore the power plug from the mains from your temperature control device.

In general the level regulator does not require any maintenance. Before working with the device, make sure, that the float's functionality is unrestricted. Remove remnants of thermal fluids from the lines of the level regulator by using a solvent that is recommended in the safety data sheet of the thermal fluid being used. These can be downloaded from our website www.huber-online.com.