

Appendix to manual CompreDrive HC add-on - Fluid hose installation

V1.0

04.02.2026

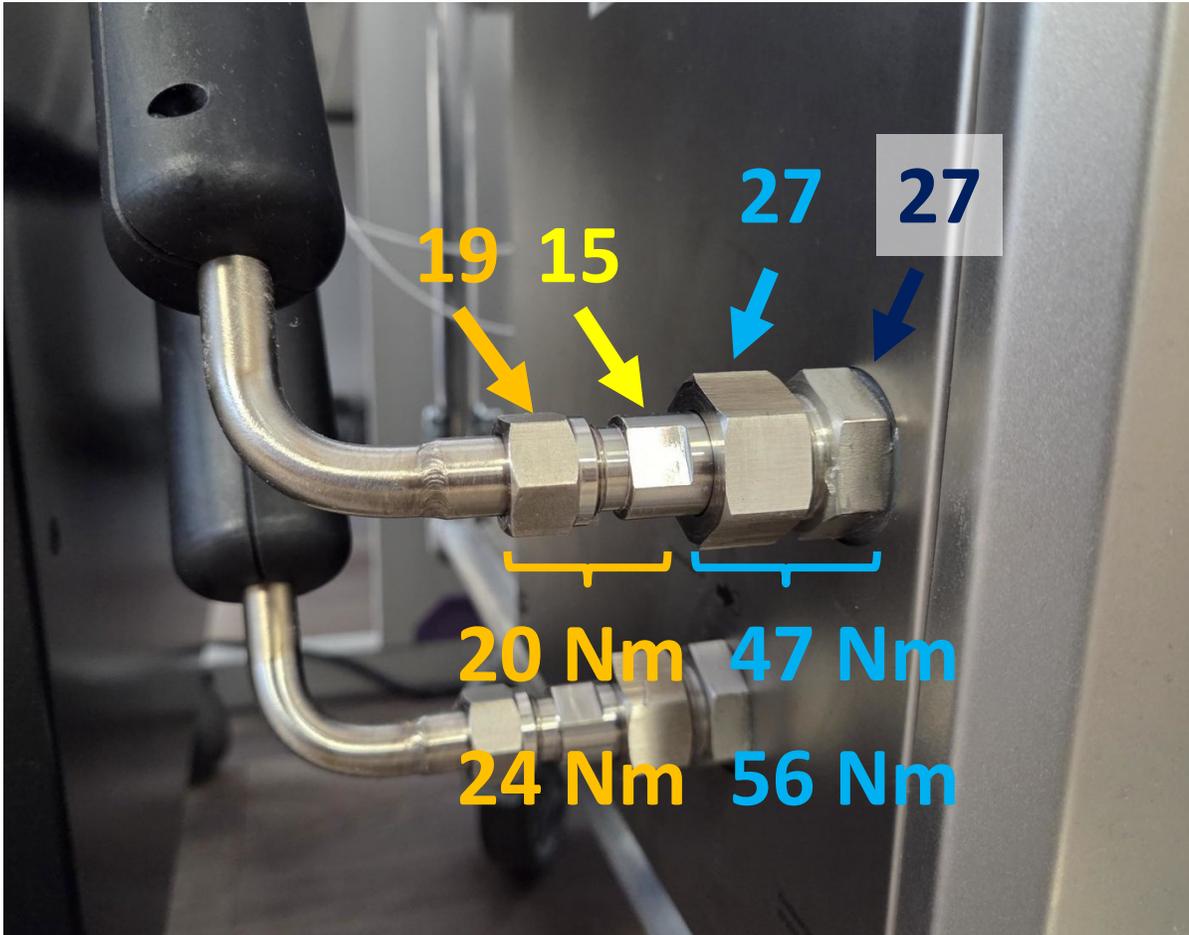
rhd  instruments
flexible cell solutions

General advice

- As the connectors sealing surfaces are quite sensitive towards scratches or hard particles, cleaning them thoroughly before installation is critical. Use soft fabric and isopropyl alcohol (Propan-2-ol).
- Clean the connector threads before putting them together
- When threading on connector nuts: Make sure to align the parts correctly. If they are aligned and the threads are engaging correctly, the nut will screw on smoothly.
- When tightening connectors: turn the nut, hold the other part in place
- Avoid spilling silicon oil on the threads of the connectors to reduce smoking as far as possible

- Don't hesitate to **contact us** in case of any doubt or uncertainty!
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Fluid hoses to thermostat



Wrench size (in mm)

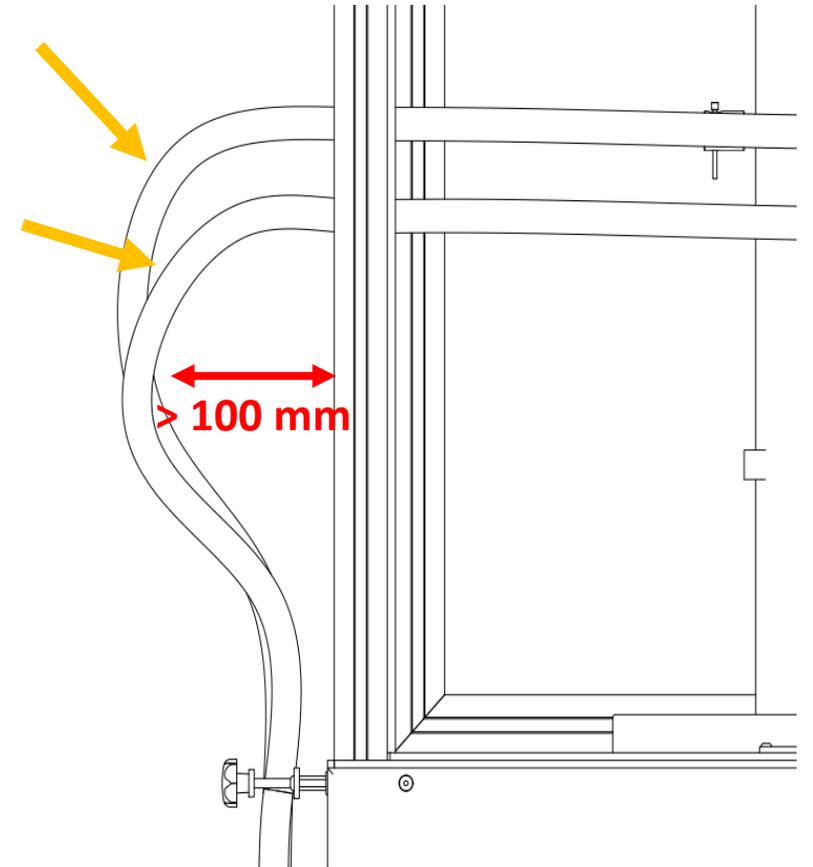
Torque spec (recommended)

Torque spec (max)

Loose length in fluid hoses

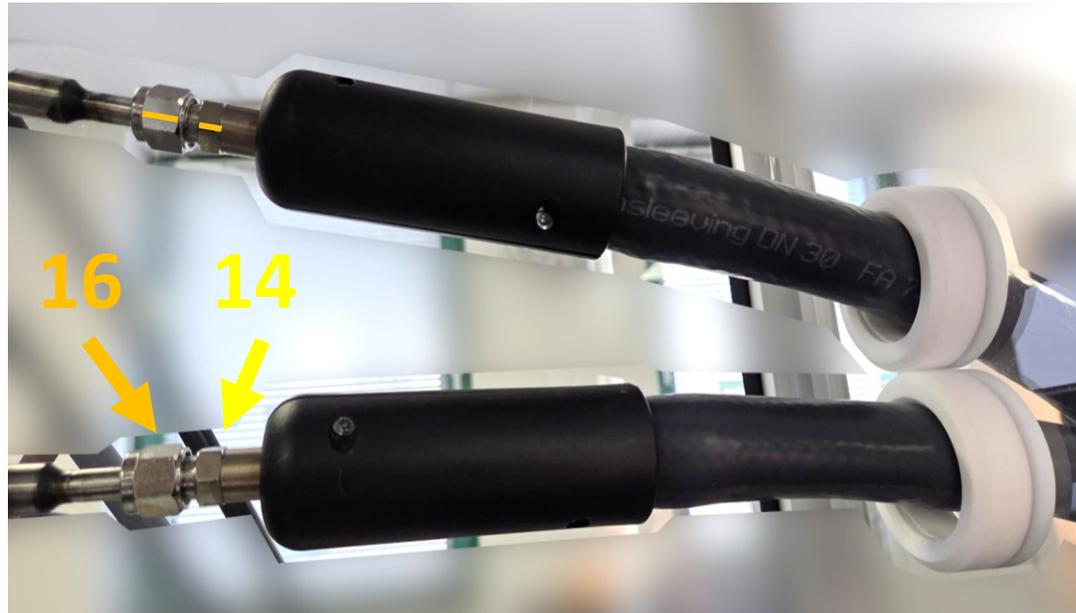
Provide sufficient loose length in the fluid hoses to allow for cell movement during operation of the CompreDrive.

This minimizes the forces applied to the cell by the HC add-on and is critical for safe operation!



Fluid hoses to heating mantle or CompreCell Pouch

**Wrench size
(in mm)**

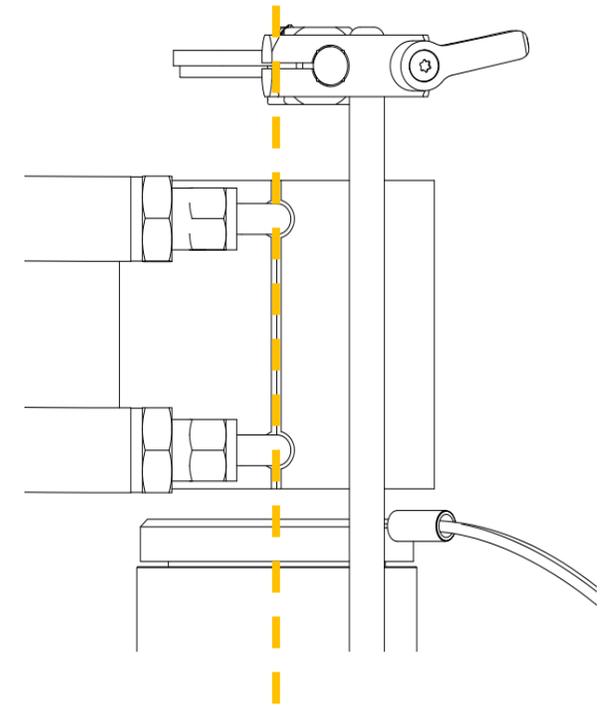


- Nuts hand tight (without wrenches)
- Mark relative position of nut and fluid hose with marker (see yellow line in picture)
- Tighten $\frac{1}{4}$ turn (with wrenches), (**max. torque = 25 Nm**)

Heating mantle alignment

Align the heating mantle with the vertical axis of the CompreDrive:

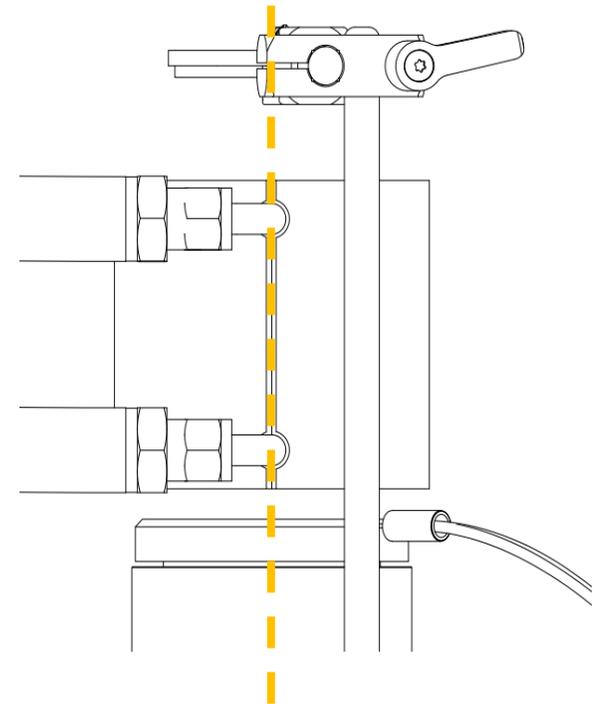
- The connectors from the fluid hoses to the heating mantle have to be loose for full adjustability
- Place a CompreCell in the heating mantle and fix the cell in position with the cell fixation
- Tighten the nuts hand tight
- Mark the relative position of the two connectors
- Tighten the connectors with wrenches about 1/8 of a turn
- Fully tighten the connectors without the cell in place
- Put the cell back in place
- Check the alignment by making sure that the fixation does not shift the cell visibly
- If it does shift the cell, redo the alignment process



Heating mantle alignment

Good alignment of the heating mantle minimizes the forces applied to the cell by the HC add-on and is critical for safe operation!

Note: Moving your thermostat twists and moves the hoses and can cause misalignment of the heating mantle!



Troubleshooting: Smoke at high temperatures (>150°C)

- Smoking should stop after 2-4 hours with the system at 230°C
- Typical reason for smoke: fluid residue in the threads of connectors
- If smoking does not stop after this time, there is most likely a leak

Troubleshooting: Slight leaks (fluid slowly dripping) – Quick fix

- Make sure the connectors to the thermostat are tightened according to the manufacturers specifications (see p.2)
- Tighten the connectors to the heating mantle a little more, while making sure not to exceed the maximum allowed torque

Troubleshooting: Slight leaks (fluid slowly dripping)

- Drain the thermal fluid from the thermostat and the hoses
- Disconnect the fluid hoses at the leaking connections
- Drain any remaining fluid
- Clean the connectors and especially the sealing surfaces thoroughly
- Inspect the sealing surfaces for scratches or other damage
- If you do find damage on the sealing surfaces, the parts have to be replaced
- Reconnect the fluid hoses and tighten them according to the specifications given in this document or any manufacturers manual
- Check if the issue has been resolved