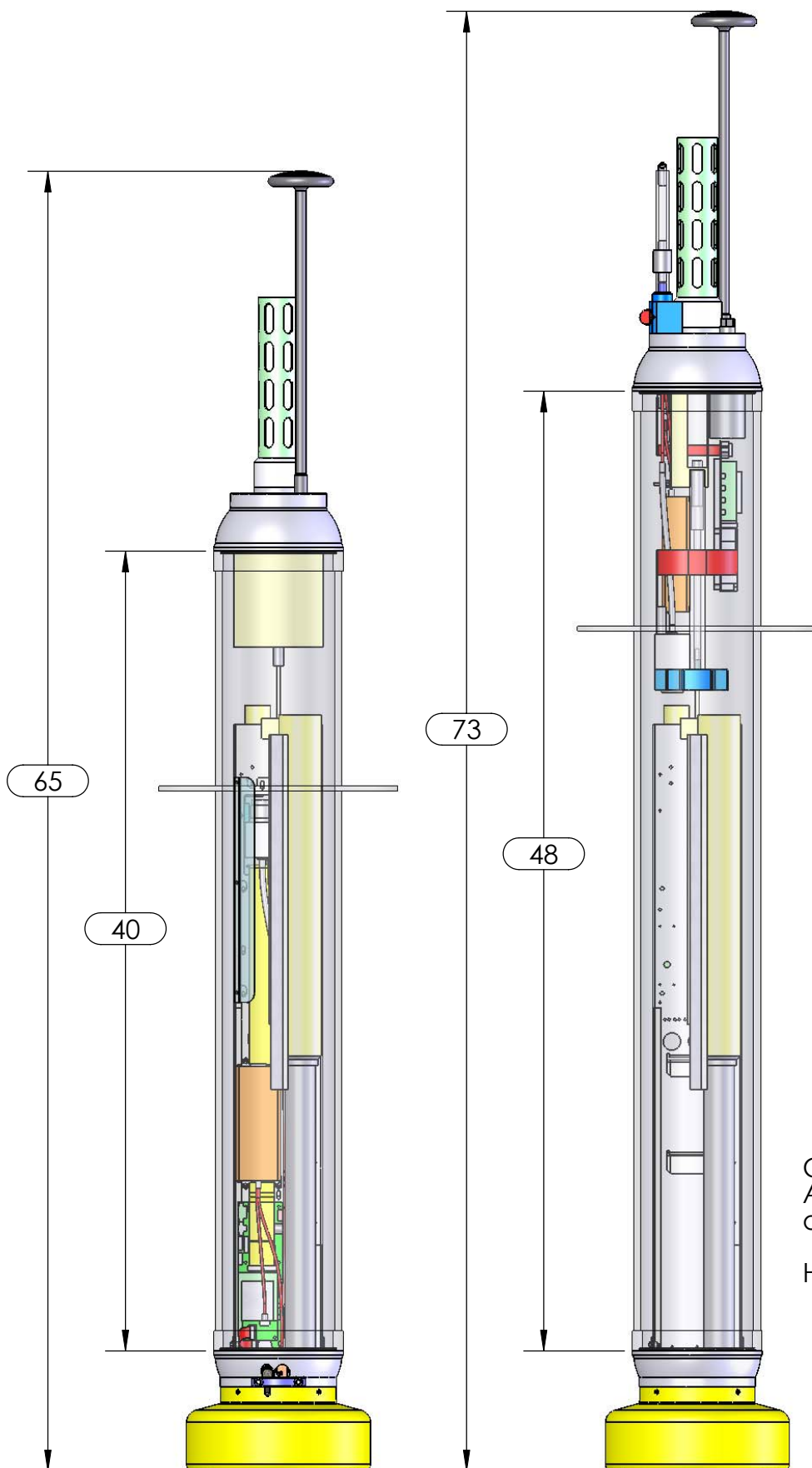
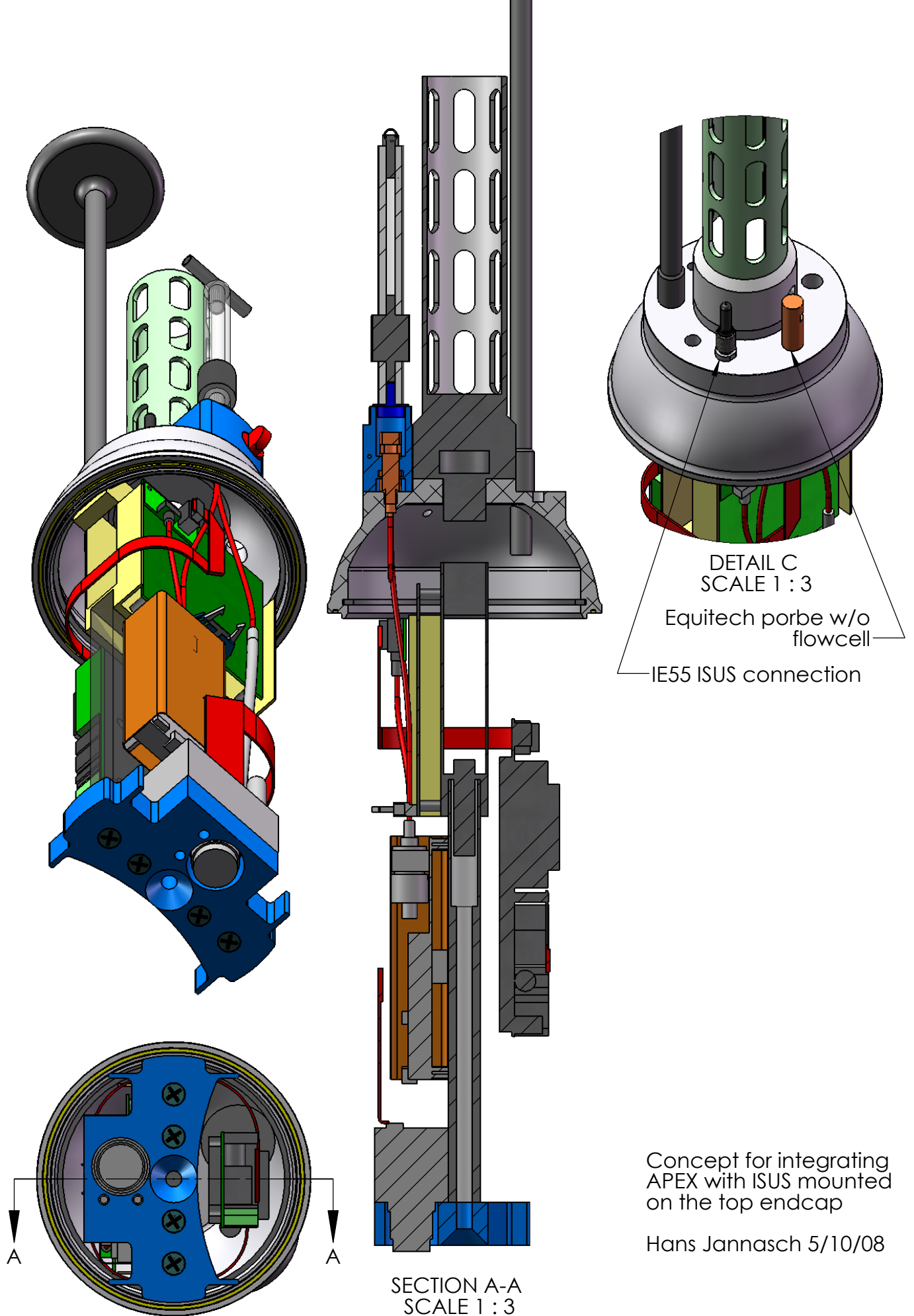
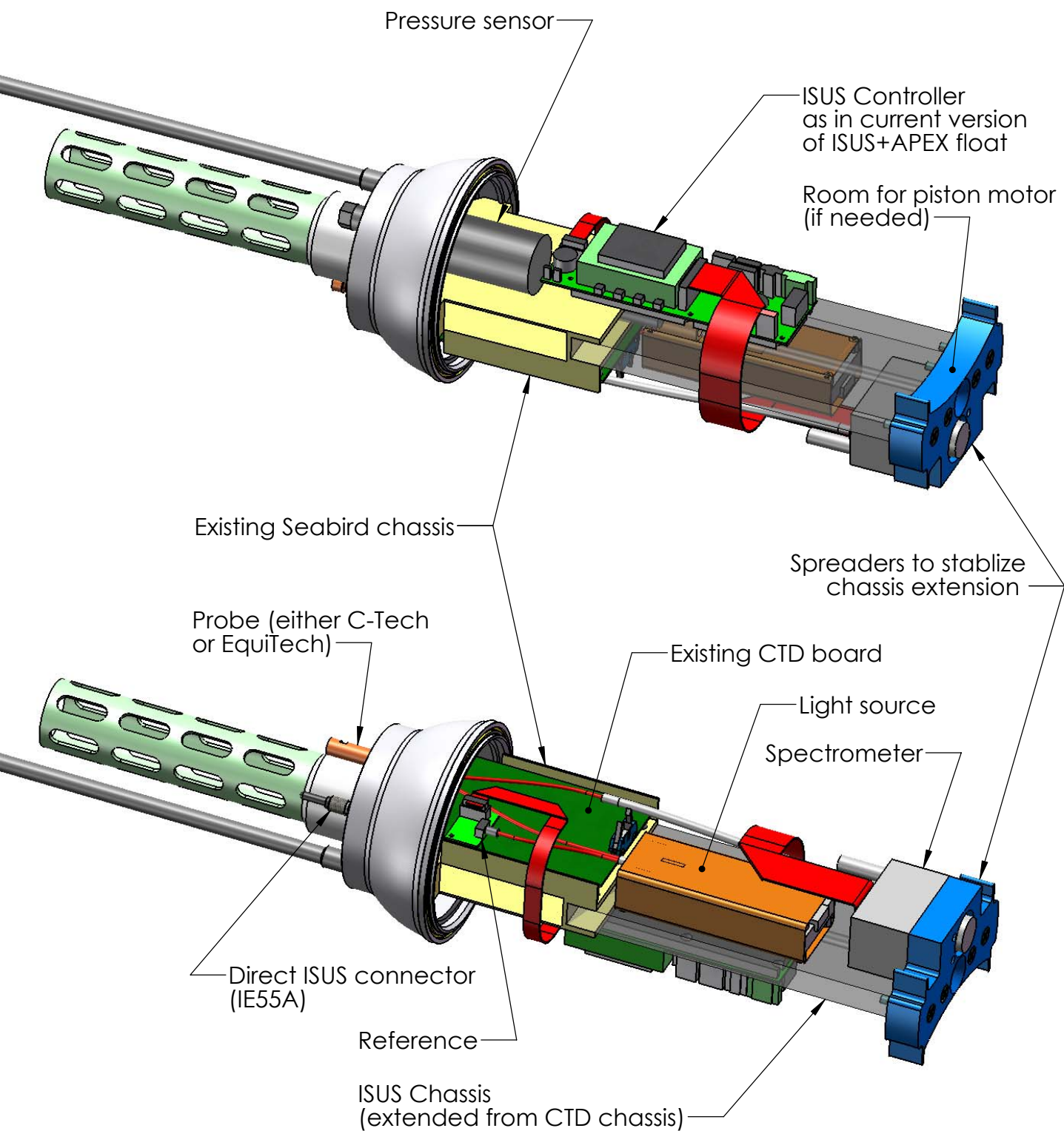




Concept for integrating
APEX with ISUS mounted
on the top endcap

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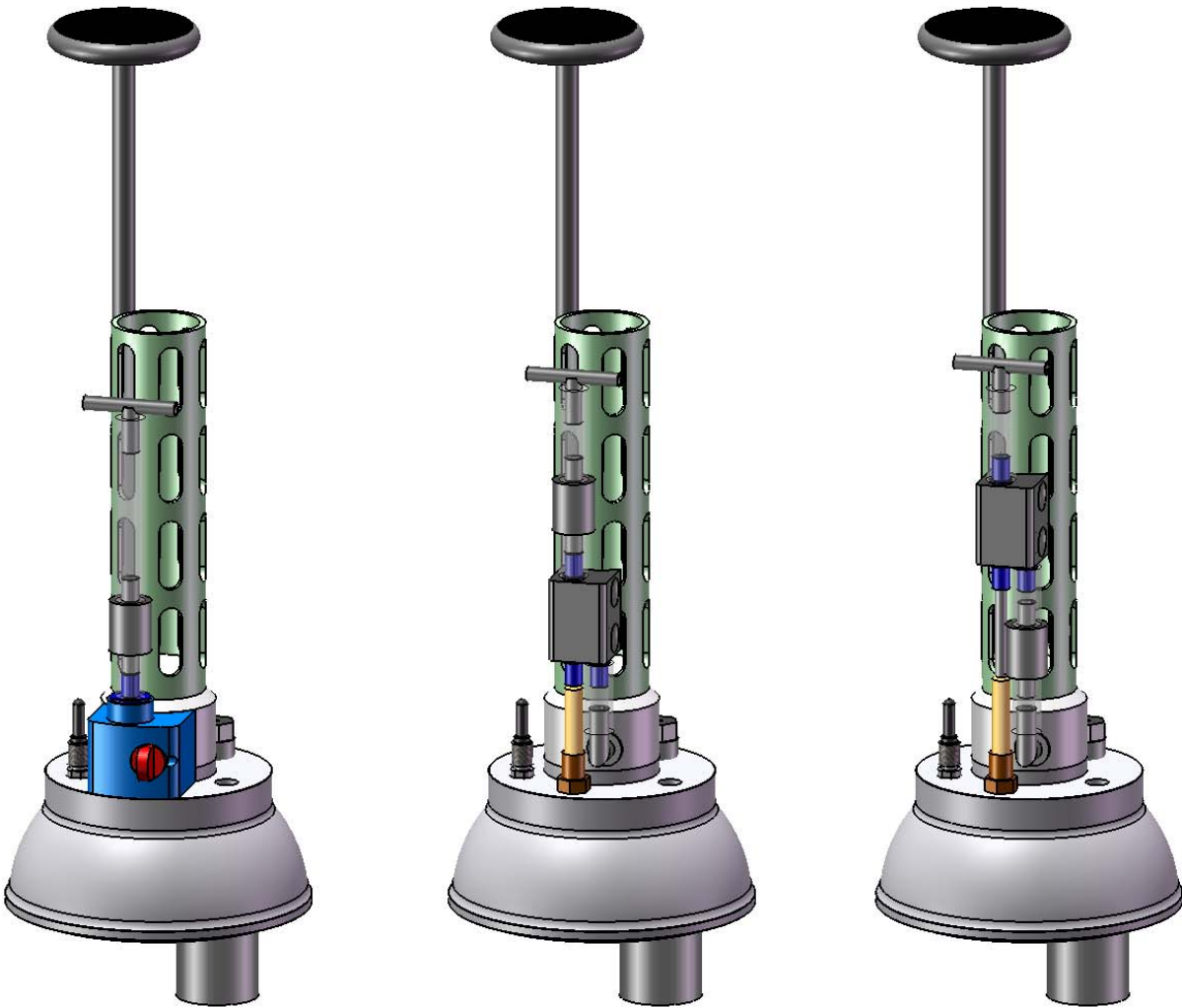




All ISUS parts are the same as the current version, other than the chassis, fibers, and cables.

Concept for integrating APEX with ISUS mounted on the top endcap

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Three flowcell options:

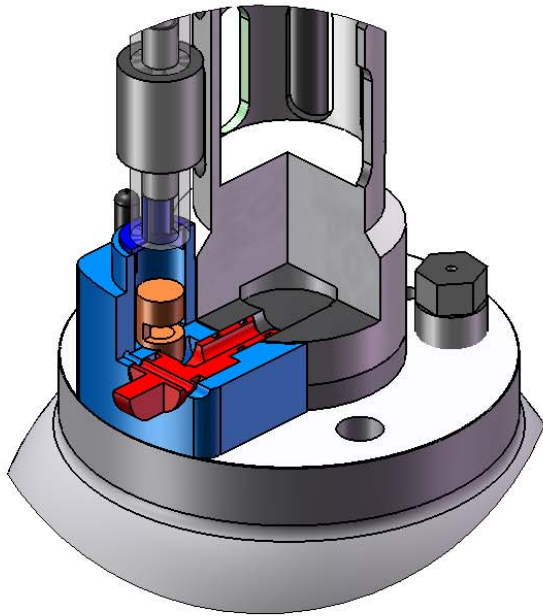
A: The endcap mounted flowcell (blue) can house both the EquiTech and C-Tech probes. Flow enters through a connector (red).

B: The trellis-mounted version has a flowcell mounted to a longer version of the C-Tech probe. Fluid connections are made with Tygon tubing.

C: This version uses the same flowcell as "B", but places the TBT source between the CTD and probe. This requires and slightly longer C-Tech probe.

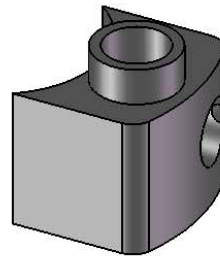
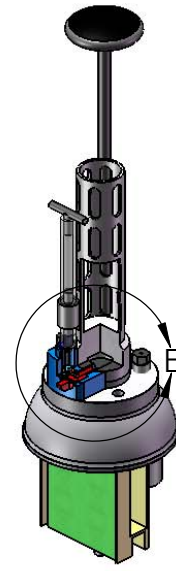
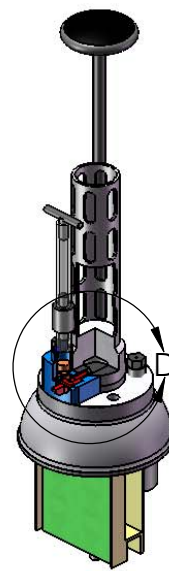
Concept for integrating
APEX with ISUS mounted
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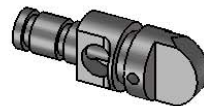


DETAIL D
SCALE 1 : 2

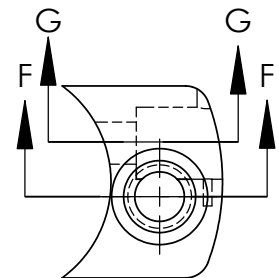
EquiTech Probe



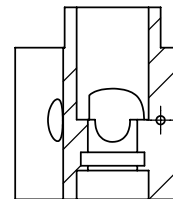
Flowcell



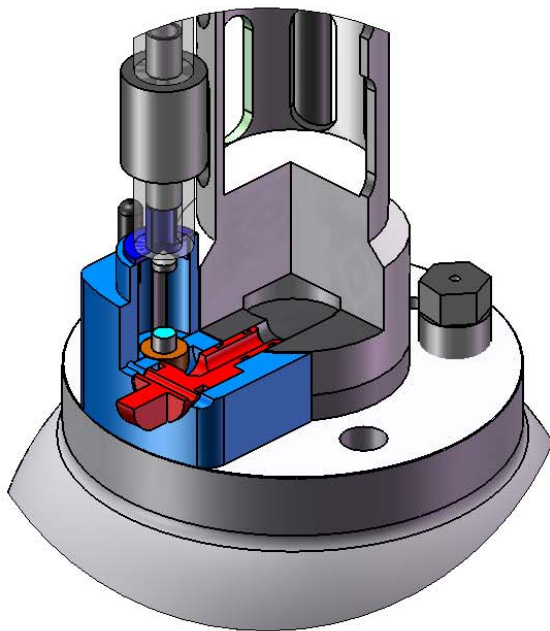
Connector



SECTION F-F
SCALE 1 : 2

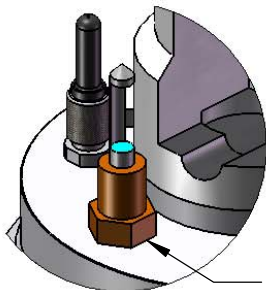


SECTION G-G
SCALE 1 : 2



DETAIL E
SCALE 1 : 2

C-Tech Probe



Lock nut for
EquiTech Probe

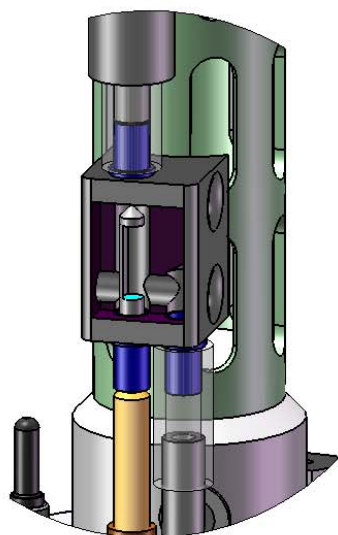
Assembly Procedure

- 1) Install probe
 - 2) Slide on flowcell w/O-ring
 - 3) Slide in connector w/O-rings
 - 4) Install #4 screw to lock in place.
- Dissassembly is reverse.

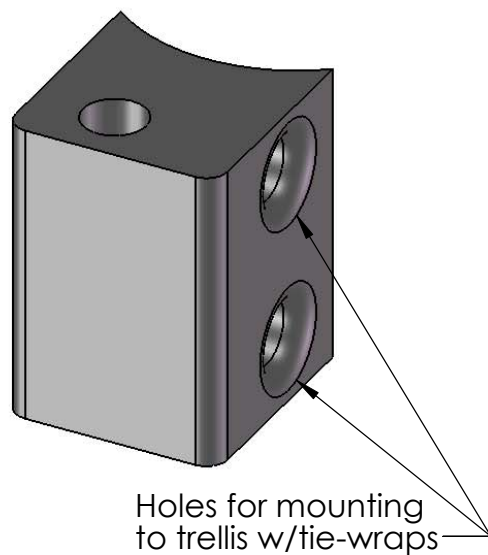
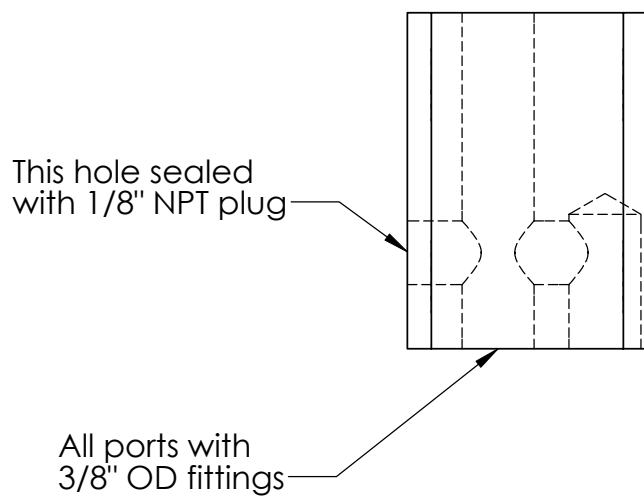
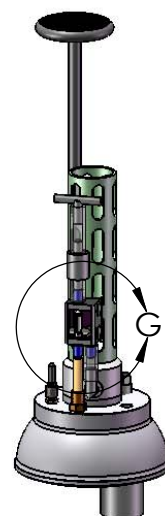
Concept for integrating
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Endcap Mounted Flowcell



DETAIL G
SCALE 1 : 2



Concept for integrating
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on the top endcap

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Trellis Mounted Flowcell