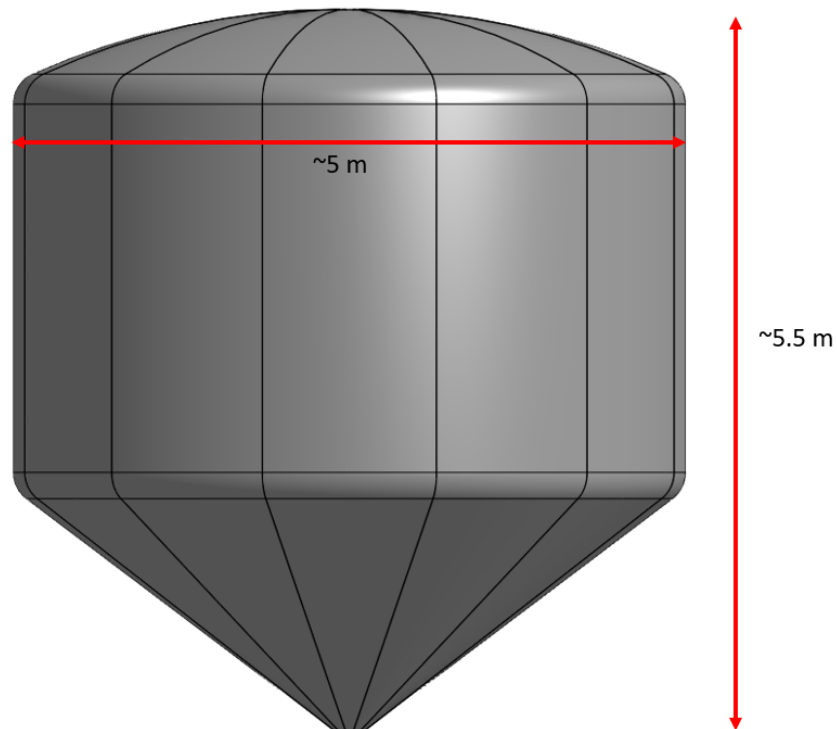


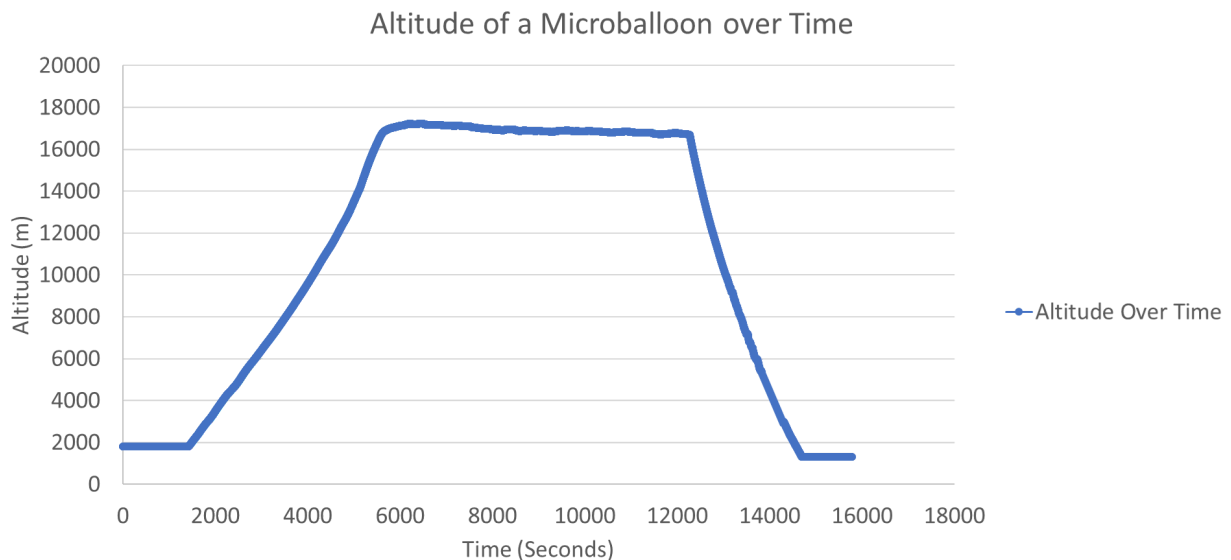
USKY-12-85-3.2

Specifications

- Fully Inflated (maximum) volume: $85m^3$
- Lift capacity: $2.0Kg(min) - 6.0Kg(max)$
- Gore length (uninflated length): $9m$
- Number of Gores: 12
- Maximum Float Altitude: $21,500m$
 - Float altitude depends on lift gas type and hook-on mass
- Total balloon system mass (not including payload): $3.8Kg - 4.2Kg$
- Fully Inflated Width: $5.1m$
- Fully Inflated Height: $5.5m$

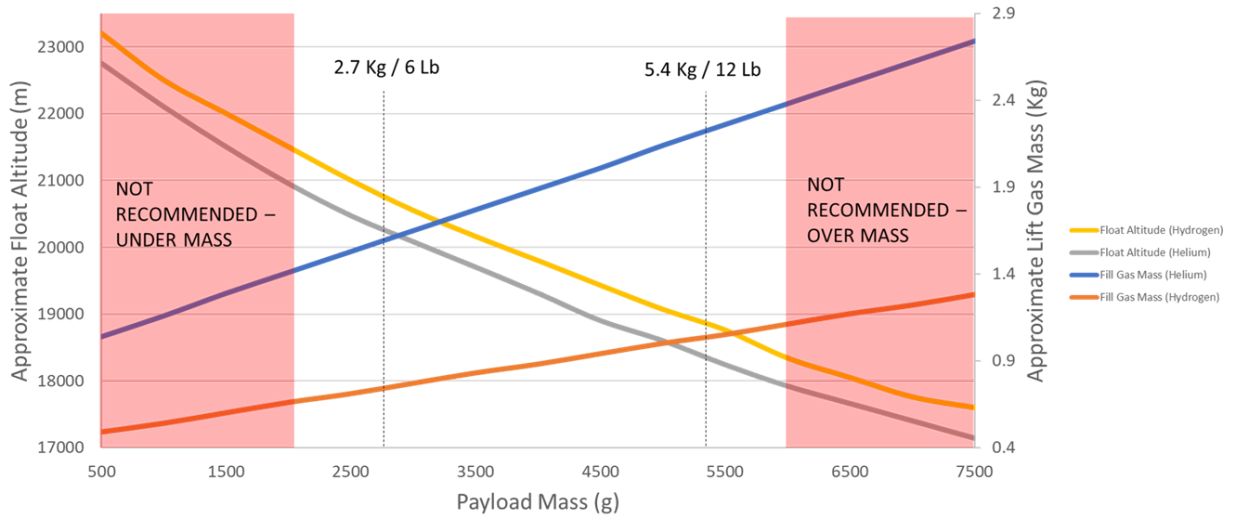


- Command and control capabilities:
 - Live tracking
 - Remotely commanded termination
 - Remotely settable geofence (redundant systems)
 - Live health monitoring including alerts
- Compatible lift gasses: Helium, Hydrogen*
 - *Hydrogen is a dangerous flammable gas and precautions should be taken to avoid air mixing and ignition sources
- Altitude stability performance: $-0.1m/s - -0.5m/s$
 - The expected rate of altitude loss at float for a new envelope
 - See a typical altitude profile below

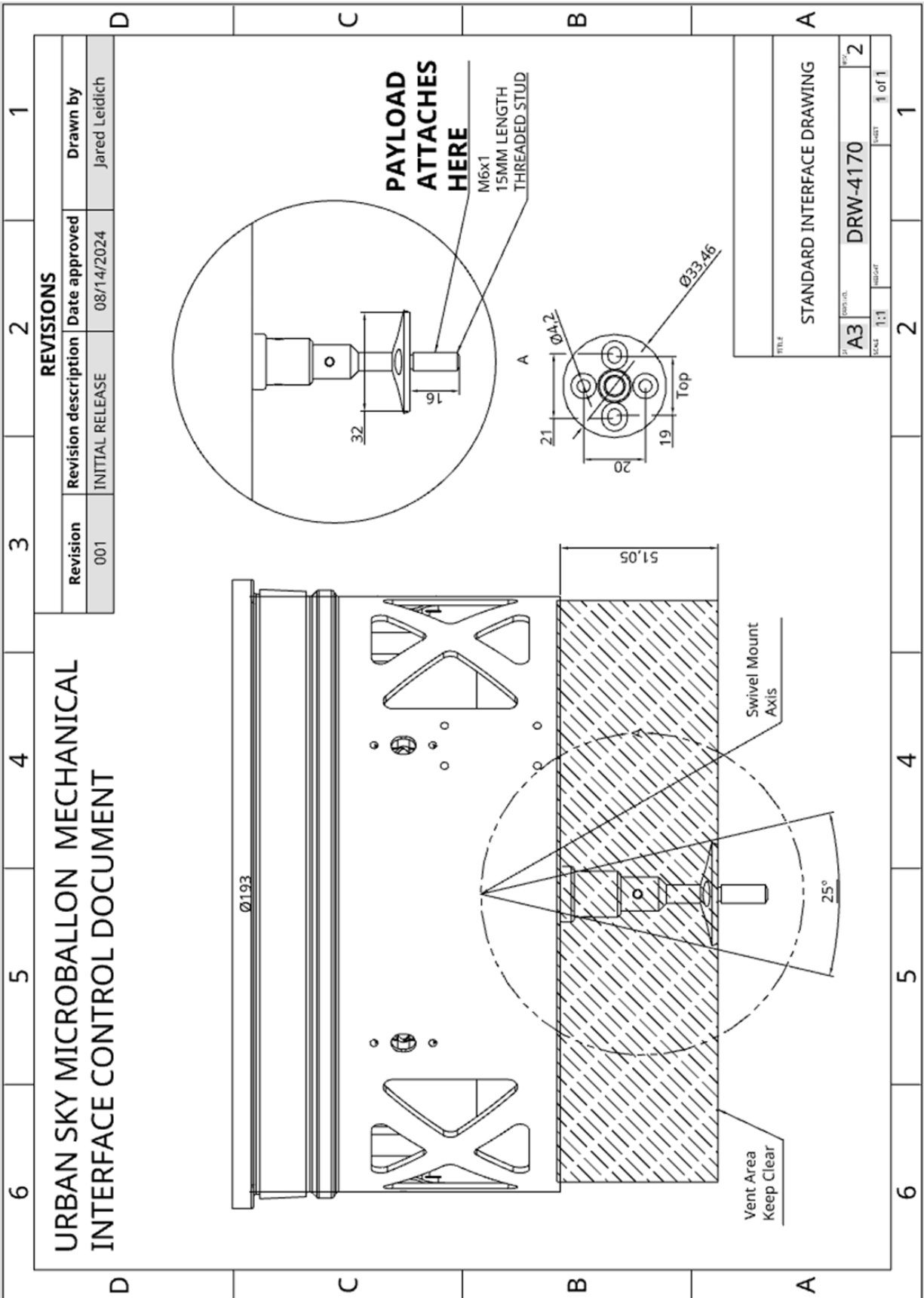


- Max achievable float altitude and required lift gas:
 - These values depend on hook-on mass. See a chart below showing achievable float altitude and how much lift gas is required for various hook-on (payload) masses.

Expected Approximate Float Altitude and Required Fill Masses for Various Payload Masses and Lift Gasses (Helium or Hydrogen) For the USKY-3.2-12-85 Microballoon



- Mechanical interface: Urban Sky balloons come with a standard mechanical interface as shown in the interface control document below.



URBAN SKY MICROBALLON MECHANICAL
INTERFACE CONTROL DOCUMENT

REVISIONS		
Revision	Revision description	Date approved
001	INITIAL RELEASE	08/14/2024

Drawn by
Jared Leidich

TITLE		STANDARD INTERFACE DRAWING	
DRW-4170	REV. 2	SCALE 1:1	SHEET 1 of 1