

Xenoergonomics: Spacer's Canteen

Image

Sticking with the spacers, here's my solution for monkey foxes drinking in zero gravity.

Humans can use straws because we can form an airtight seal with our lips and rarefy the air in our oral cavity in order to produce suction.

Yinrih can't form a seal with their mouth, so straws are out. My solution is to have a piston actuated by a screw, similar to how some fountain pens refill ink. You turn the screw, pushing the piston into the chamber, exerting pressure on the liquid within. To drink, the person licks the ball bearing at the end of the tube, and the pressure exerted by the piston causes water to flow out. These drawings are technically upside down. Being in microgravity means you'd probably hold the canteen upright with the tube at the top and the piston at the bottom.

There are two versions of the canteen: the one on the left is filled directly with water, while the other one contains a flexible bladder that contains the drink, allowing for easier cleaning.

Does any of this work? I have no idea. I only got 5 hours of sleep last night lol.

Revision #1

Created 2026-06-05 22:51:53 UTC by Lurker

Updated 2026-06-05 22:51:53 UTC by Lurker