Similar Products

Since coming up with the concept of a mobile device that carbonates water, I found one or two products on the market that do something similar but there are distant differences to these designs, when compared to my concepts.

PAT'S BACKCOUNTRY BEVERAGES CARBONATOR

Essentially it is plastic bottle with built-in levers, valves, and cups. You add a mixture of potassium bicarbonate and citric acid to the small orange charging cup within the bottle, pull a lever on the cap a few times to add water, and a chemical reaction starts, releasing CO2 into your beverage of choice. In this case, your beverage of choice would be beer.

This product doesn't require CO2 cylinders or pods unlike my potential product design.

There is a very clear target market for the product that is fairly specific. It seems to appeal to backpackers / campers as well as beer lovers.

FIZZINI

Handheld carbonation device that incorporates a basic, innovative mechanism that is actuated with a simple twist

Requires:
- An 8g CO2 pod / charger
- A 600ml or 1L Fizzini bottle

Pros:
Easy to use
Appealing looks
Extremely cheap
Relatively cheap CO2 cartridges

Cons:
Bottles aren't nearly as long lasting as the carbonating lids

Brand name, Fizzini, is catchy and is almost a play on words

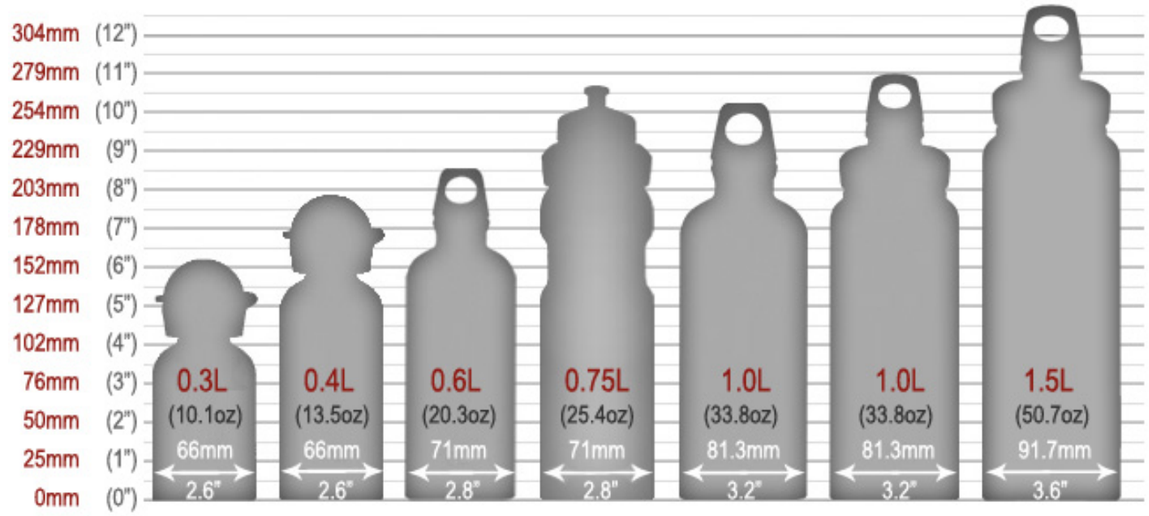
Very modern, atheistically pleasing design

Bottle Dimensions

In the process of determining the specific dimensions of the bottle design I needed to make note of the number of different dimensions I had to set, while also considering the various factors that would influence the size of the bottle.

TYPES OF DIMENSIONS:
- Width
- Hight
- Volume
- Width of lid / rim
- Thickness & positioning of indented grip

FACTORS INFLUENCING SIZE:
- Anthropometry of the hand
- Anthropometry of the mouth
- Standard width of drink bottle holders in cars



STANDARD CUP HOLDER SIZE

Particularly in cars, movie cinemas, stadiums, theatres and on bikes there are fixed drink holders. The size of the cup holders often vary but the is unofficial standard or average that they somewhat adhere to. After physically measuring the diameters of the cup holders at the various locations / objects, I was able to determine that the diameters range between 62mm and 88mm (with an average of 72mm). Obviously this significantly influenced the diameter of the my product design because I wanted the bottle to fit in most (or as many) locations and environments as possible, ultimately widening my target market.

OVERAL DIMENSIONS

Before using Inventor to build my water bottle, I needed to determine the general and overall dimensions of my design. Ultimately this would make the CAD process significantly easier. Below are my recorded dimensional values.