



Paravalve

High Performance Wide Mouth Straw Lid

User Guide





Use and Care:



The Paravalue spout has three positions. The open position provides a free flow of liquid without having to suck against a vacuum and the closed position is completely leak proof. The middle position is for venting any pressure that may have built up inside the bottle. **Because the lid is perfectly sealed and completely leak-proof, any pressure differential between the inside of the bottle and the outside are should be vented before fully opening the spout.** Here is a partial list of things that can cause this pressure differential:

- The beverage is carbonated.
- The bottle heats up in the sun.
- The bottle contents are left for an extended period of time, and slowly warm up.
- The atmospheric pressure changes; i.e. you drive up into the mountains or take it up in a plane.
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Unlike other lids, if you forget to vent the bottle you might get a few drops of liquid when you open the spout quickly. With other bottles, you may get soaked.

Straw must be cut to length for your bottle. See the straw cut guide on page 5 for detailed instructions. Getting the right straw length is critical for effortless hydration.



Cleaning:

Use the included straw cleaning brush and warm soapy water to clean the straws. Don't clean the straws in the dishwasher.

The lid is top rack dishwasher safe. For best results, open up the spout fully and if possible, insert a prong from the dishwasher rack through the spout hole.



Due to the wide unobstructed water path, the straw cleaning brush may also be used to clean the spout.





Wide Mouth Bottle Compatibility List

Plastic:

Nalgene, CamelBak,
Contigo, Polar, Bubba,
others



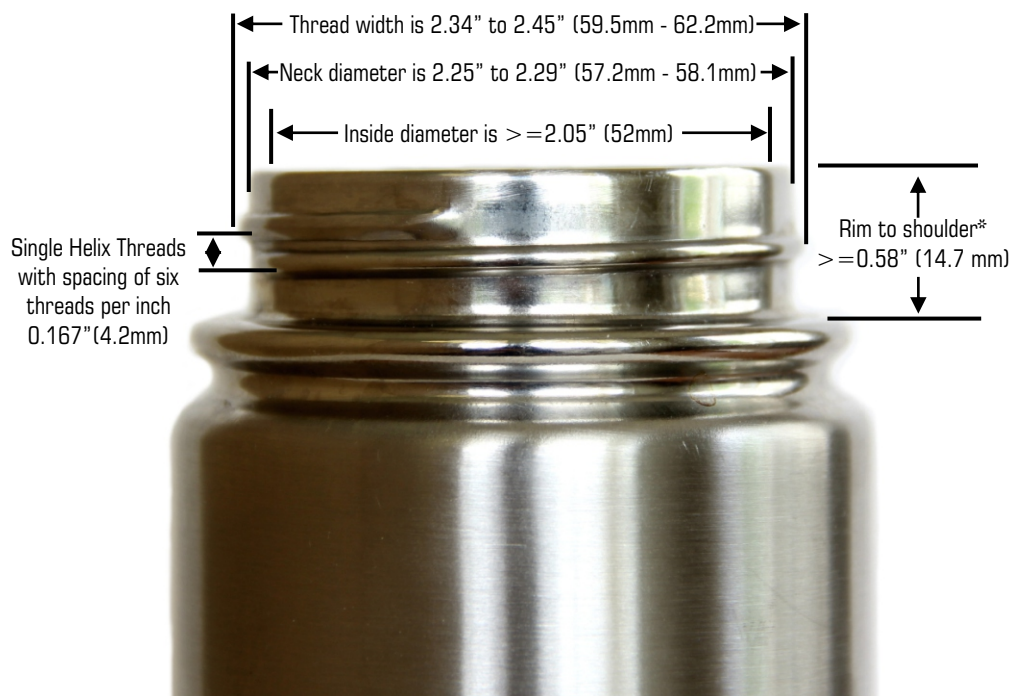
Steel:

Hydro Flask, CamelBak, Contigo, Mira,
Simple Modern, Hydrocell, Fifty/Fifty,
Topoko, Kleen Kanteen, Takeya, Buzio,
Swig Savvy, Hiwill, others



For the latest updated list, see the bottom of the
Amazon listing, above the questions/answers and reviews

If you have another brand of bottle, it should fit your
bottle if it is within all of these guidelines:



* optional thick O-ring will allow for a shorter neck.



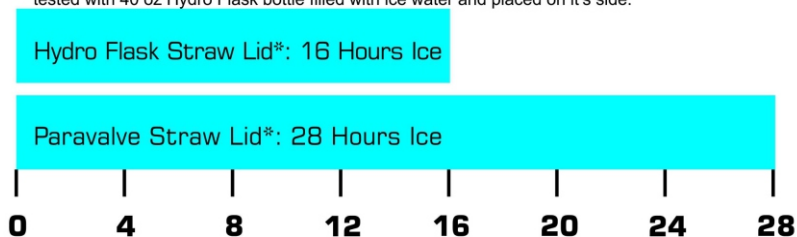
Insulated straw lid



The insulation on the Paravalve lid will help keep your cold drink cold, and your hot drink hot. And unlike the single wall straw lid shown below, the Paravalve won't sweat condensation and drip onto your belongings.

Ice lasts up to 12 hours longer

* tested with 40 oz Hydro Flask bottle filled with ice water and placed on it's side.



The Paravalve works with liquids up to 140 deg. F (60 deg. C). The hot liquid may expand the air and pressurize the bottle. If you are using the Paravalve with hot liquids, it is important to pause in the vent position for a second or two to prevent hot liquid from coming back up the straw to release the built up pressure.

We don't recommend using the Paravalve straw with liquids hotter than 140 degrees (60 deg. C); the high flow rate could burn your mouth.

According to a recent study, there may also be a correlation between drinking very hot beverages and esophageal cancer:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2773211/>





Straw Cut Guide

Cutting a straw to the proper length for your bottle

Step 1: Mark Bottle Depth:

Place a straw into your bottle, and hold it against the bottom of the bottle in a vertical position. Using a sharp marker, place a mark level with the top of the bottle.



Step 2: Mark the Cut: Place a second mark $5/8$ " (16mm) below the first mark - this is where you will cut the straw.



Step 3 - Cut Straw:

Using a sharp knife and a sawing motion, cut the straw at a slight angle, making the shorter side about $1/8$ " (3mm) less than the marked straw length.



Step 4 - Verify Straw Length: Insert the uncut end of the straw into the bottom of the ParaValve lid and push it all the way in, then screw the lid onto your bottle. The cut end of the straw should float above the bottle of your bottle with at least $1/8$ " clearance. If it is too close, trim the straw and try again.



Not all bottles are the same: The shape of the bottom of your bottle may require an adjustment to your straw length. If you meet a lot of resistance when trying to suck on the spout, your straw may be too long and be pressing against the bottom of the bottle, preventing free flow. You can test this by unscrewing the lid and sucking on the spout with the lid loosely on the bottle - this should pull the straw opening away from the bottom of the bottle, allowing it to sip freely. If this reduces the effort, trim the straw and retest.

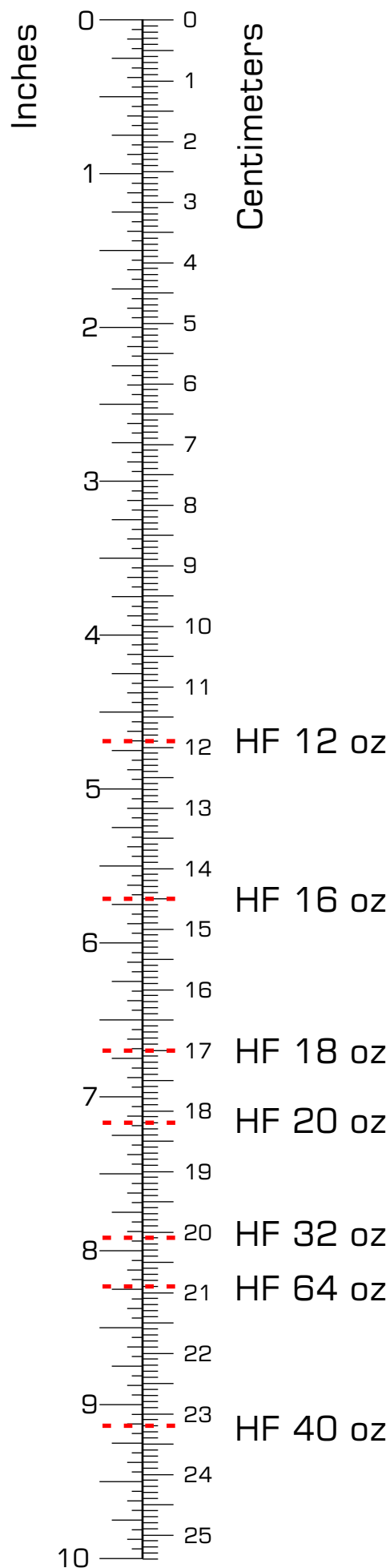


Hydro Flask Straw Cut Guide

You can print this page and use it as a guide for cutting the straw to the correct length based on the size of the bottle.

HF straw length

12 oz - 119mm
16 oz - 145mm
18 oz - 170mm
20 oz - 182mm
32 oz - 201mm
64 oz - 209mm
40 oz - 232mm





Trouble shooting:

If your lid is not almost effortless when drinking, then the most likely cause is your straw is too long. Please try trimming the straw and test again. If you have any other problems, please contact Customer Service at .

support@eafproducts.com



Seal Lubrication

The seals under the spout are subject to dynamic forces whenever the spout is rotated between the open and closed positions. On some units, the seals may catch a little on the spout as it rotates, especially if rotated quickly and this can impair sealing. A small amount of lubrication will eliminate any catching. For most units, seal lubrication is not needed, but may be preferred for those that like a light action on the movement of the spout.

If you choose to lubricate the seals, we recommend that the two seals under the spout be lubricated with a food grade oil a couple of times per year or when friction develops in order to make moving the spout easier. We have spare seals available if you should need them.

The best oil to use is food safe silicone oil. This is available from Home Depot for about \$7; one bottle would last you thousands of applications. You may also use a cooking oil, though we do not recommend polyunsaturated vegetable oils like soy, corn, sunflower, safflower and Canola as they oxidize easily and can gum up the movement. Olive oil, coconut oil or palm oil work well. One drop is more than enough.

Removing the spout for cleaning/seal maintenance

The following procedure only applies to the Paravalve 2.0 straw lids. The original Paravalve lid does not have a removable spout. Lubricating the seals is optional.



Step 1": Put the spout into a straight up vertical position.



Step 2: Place two fingers on the right side of the spout.



Step 3: Pull the spout to the side toward the smaller air ball until the spout pops out of the lid.



Step 4: Remove the spout and set it in a safe place.



Step 5: To remove the seals, use a toothpick or similar tool. Don't use a knife or other sharp object as it might cut the seal. Clean, lubricate or replace the seals as needed, and return them to the lid.



Step 6: To replace the spout, we will reverse the procedure. Start by placing the air ball side down into the lid as shown.



Step 7: Press down firmly on the spout to pop the spout pivot back into its socket. Move the spout a few times to verify it moves freely.



Seal Replacement

We make our seals from an upgraded FDA approved EPDM rubber that should last much longer than the silicone seals used in other straw lids. EPDM is also less porous, which makes it less likely to harbor mold; silicone is porous enough to allow mold to grow into the substrate. If the seals should become too dirty or damaged to clean, all three seals are easily replaced, and so can the spout. We want your lid to last a long time.

O-ring: This seals the lid to the bottle. To remove it, bang the bottom of the lid against your hand or other firm surface. It should come out after a few times. When replacing the O-ring, use a popsicle stick or similar object to push the new O-ring into position. Don't use a knife or other sharp object which could cut the seal.

Water Seal and Air Seal: These two seals are underneath the spout, so the spout must be removed before they can be replaced. The spout removal procedure is shown above. You can use a toothpick or dental pick to remove the old seals. Clean the seal cavities with warm soapy water before placing the new seals, then re-install the spout.

Designed for Sustainability...

Reusing is much better than recycling

Thank-you for choosing a reusable water bottle. Eighty percent of single use water bottles end up in a landfill, so your choice to use a reusable water bottle reduces impact on the environment. See the entertaining you tube video below for an animated depiction about single use bottled water and the associated environmental problems:

“The Story of Bottled Water”.

<https://www.youtube.com/watch?v=Se12y9hSOM0>

Non-Toxic BPA Free Materials

The Paravalve straw lid is made from FDA approved, BPA free Polypropylene.
The straw is made of FDA approved BPA-Free HDPE.
The seals are made of FDA approved EPDM.



Hidden Feature: gentle pour stream

One thing we found, quite by accident, is that the dual ball valve system can provide a gentle stream of water that is useful for washing hands, giving your dog a drink, or provide a "no touch" way to share some water with a friend. To do this, open up the spout, and with the air hole below the water hole, tilt the bottle to the side; the water path will act as the vent, and you will get a small stream of water out the vent hole.

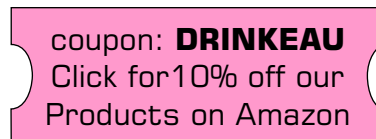




"Indifference towards people and the reality in which they live is actually the one and only cardinal sin in design"
– Dieter Rams.

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